

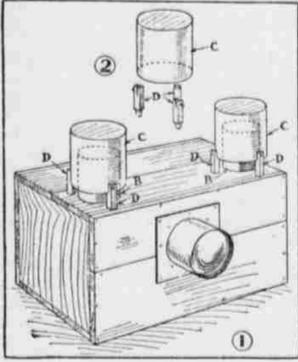
## HANDICRAFT FOR BOYS AND GIRLS

By A. NEELY HALL and DOROTHY PERKINS

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### A REFLECTING LANTERN.

The reflecting lantern is more magical in its operation than a magic-lantern because instead of projecting

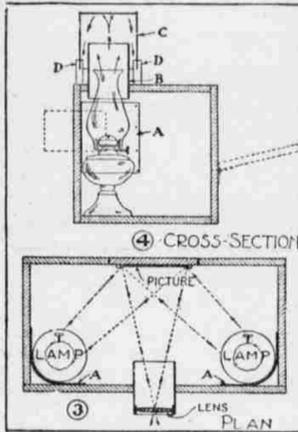


through transparent slides it reflects opaque pictures placed within it.

You can construct a satisfactory lantern yourself. You must get a box about 10 by 10 by 20 inches in size, 2 oil-lamps, or two 16 or 32 candle-power electric lamps with the parts necessary for connecting them to the lighting circuit, two 1-lb. baking-powder cans and two tomato cans, two pieces of tin about 6 by 10 inches in size, and a double-convex lens about 3 inches in diameter. The lens from a lantern or bicycle lamp will do.

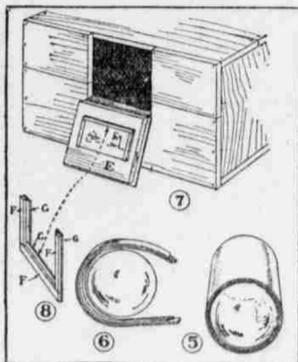
Figures 3 and 4 show the inside arrangement of the lantern box. Place the lamps in the corners of the box, next to the front, and tack in back of them the piece of tin for reflectors (A, Figs. 3 and 4). Bend the reflectors as shown in Fig. 3.

If oil-lamps are used, their tops will project through the ventilator holes



as shown in Fig. 4. These openings must be inclosed so as to conceal the light, and yet allow heat and smoke to escape. The most satisfactory arrangement is that shown in Figs. 1 and 4. A baking-powder can with its bottom removed (B) is slipped over the lamp chimney and fitted into the chimney hole, then a tomato can (C) is inverted over the top of the can and fastened in the slotted ends of three wooden peg stits (D, Fig. 2), and the pegs are fitted into holes made in the top of the box (Figs. 1 and 4).

The lens is mounted in a baking-powder can jacket (Fig. 5). Remove the bottom of the can, and if the lens



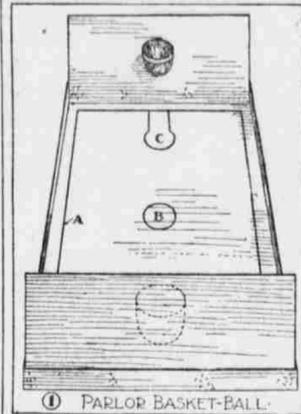
is smaller in diameter than the can, make a band of cardboard strips to fit around the edge of the lens as shown in Fig. 6, and glue these strips to the inside of the can. The lens jacket should fit loosely enough in the lantern box opening so it will slide back and forth for focusing.

Figure 7 shows the back of the lantern box. Before putting this on, putty up all cracks between the boards in the top and front of the box to make the lantern light-tight; then paint the inside of the box and the cover boards with lamp-black thinned with turpentine, so there will be no reflections other than those produced by the lamp reflectors and the picture. In nailing the boards in place, leave an opening about 7 inches square directly opposite the lens. Cut a piece of board to fit this opening (E, Fig. 7) for the picture holder, and hinge it in place. A frame for postcards to slide in should be built up as shown in Fig. 8. First nail strips F to board E, then tack nail strips G to them so their edges project over strip F.

### PARLOR BASKET BALL AND TENNIS.

For the basket ball game (Fig. 1) you will need the cover of a cardboard box for the playing field. To each end of the rim sew a piece of cardboard to form a backstop five or six inches high. Each backstop will support a little basket like that in Fig. 2. First make a loop two inches in diameter out of a strip of cardboard, sewing together the lapped ends, or fastening them with a brass fastener (Fig. 3); then make a small cloth sack and glue or sew its upper edge to the inside of the cardboard ring.

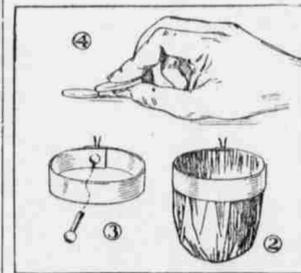
Mark out the playing field with pencil and ruler. Draw a line entirely around the field one-half inch inside of the rim of the cover for an outside boundary line (A, Fig. 1), and describe a circle two inches in diameter in the exact center of the field (B), and a three-quarter circle of the same diameter directly in line with it and



three inches away from each end boundary line (C). Connect the ends of the boundary line and the three-quarter circles with parallel lines drawn as shown.

If you own a game of Tiddledywinks the little bone "winks" and "snappers" are what you need with which to play this game of basket ball. There should be ten winks, five of each of two colors.

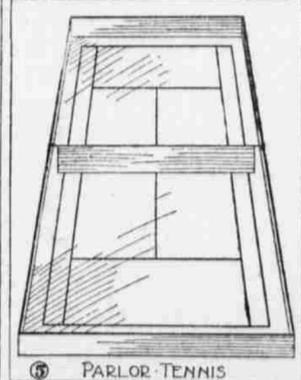
Parlor basket ball is for two persons, but four may play with two on a side. Starting the balls one at a time in the center of the field (B), and in each player in our parlor basket ball game has for her object the flipping of her five balls into her basket, the basket having been chosen before the start. One flip constitutes a turn whether it causes a ball to move or not. If a ball crosses the boundary line (out of bounds), the opposite player may flip it in the opposite direction to that which it is being played,



in addition to using her regular turn for advancing one of her own balls. If she fails to flip the ball from out of bounds, the other player receives two flips in her next turn. If a ball is flipped on to or touches a ball of the opposing player, the play constitutes a foul, and the opposing player may take any one of her balls, place it in the three-quarter circle (C) beneath her basket, and have a free flip for the basket, in addition to using her regular turn. The player getting her five balls into her basket first wins.

Parlor tennis is played with two "winks" from a game of Tiddledywinks or two cardboard disks.

Fig. 5 shows how the tennis court is constructed in the cover of a cardboard box. Rule off the lines of the court with ruler and pencil as indicated in Fig. 5. Then for a net



suspend a narrow strip of cloth on a piece of thread tied to a pin stuck into the center of each side edge of the cover.

## FARM POULTRY

### MATING RHODE ISLAND REDS

To Get Proper Shade That Is Required by Standard One Must Breed From Darkest Reds.

In mating Rhode Island Reds you must, to get the proper shade that is required by the standard, breed from your darkest red fowls. Breeding in any other way gives you a large number of birds decidedly too light in color and badly off in shape.

The Rhode Island Red, though an American bird, is a very old family. It is descended from an oldtime red



Rhode Island Red Pullet Bred by Fred Kuntz, Forest Glen, Ill.

fowl, sometimes simply called the Red breed and sometimes the Everlasting Layer. Even long ago it carried the peculiar long body it carries today.

For nearly sixty years now this breed has been crossed and outcrossed to give it strength, retain its laying quality and color, the last something not permanent to the standard set for it without taking great care to keep it so.

### EXPENSE OF POULTRY FOODS

Prices Are Not on Decrease as Some Poultry Keepers Expected—Protein Is a Necessity.

The high price of good poultry foods is not on the decrease as some poultry keepers thought it would be. It continues so high that even on the farm the owner has begun to count its cost in the outlay to his chickens. To do this on the farm is a loss if the food is withheld, for poultry products on the farm outrank in price the high rate of food.

The protein feeds are highest in price unless it be some of the meals, such as cottonseed, so plentiful in the South, but this is so dangerous if fed in quantities that often fowls are sacrificed to this cheapness, or at least it is the experience of many given that to make cottonseed meal even so much as one-tenth the bulk of the poultry feed is dangerous.

However, the New Jersey experiment station is making a test of this and we will soon get real facts in the matter. Clover and alfalfa are cheap protein foods, but even with these we can overdo their feeding.

### DESIRABLE TO PUSH PULLETS

Variety is as Important as Liberal Quantity in Feeding to Increase the Egg Yield.

From now on, the price of eggs will rule high until the spring months, and it is desirable to push the pullets along.

Liberal feeding, beginning with either a good dry or moist mash in the morning, plenty green stuff, and meat scraps with some cut bone, and in evening good dry grain, should hurry the egg production.

Variety is as important as liberal quantity in feed.

### LATE HATCHES FOR BROILERS

Good Returns May Be Secured From Birds if Given Warm Quarters, Good Feed and Range.

Late-hatched chickens if kept in warm quarters, and fed properly, with sufficient range and some green food, may be turned off for broilers after the holiday season is over and bring a sum that is worth while.

A late turkey is unlike a chicken, inasmuch as a small chicken is the acme of quality, while a small turkey is not apt to be, but the turkey can be kept until it is large and plump and bring its price.

Crowding Causes Trouble. If the hen houses are going to be crowded, reduce the flock to the point where it will have plenty of room, for crowded quarters are likely to cause trouble, including disease, and stock in crowded quarters never proves as profitable.

## Horticultural News

### BEST COMBINATION ON FARM

Poultry, Fruit and Bees Are Directly Benefited in Various Ways by Being Kept Together.

Of the many different lines of agricultural interests, poultry raising, fruit growing and bee keeping can be combined to the best advantage. Poultry, fruit and bees are directly benefited by being kept together. Three essential crops, meat, fruit and honey, can be grown on the same ground at one time, each contributing to the success of the other in various ways.

Fruit trees afford the shade and protection necessary for fowls and bees. They yield food in blossoms, insects and fallen fruits and in return are benefited by losing all that is so eagerly devoured by the industrious beneficiaries of their beauty. Fowls not only decrease the insect pests in the orchard, but they deposit rich nourishment unsurpassed in quality for soil. The majority of farmhouses and suburban residences have orchards or plots of ground that with very little preparation can be made into ideal poultry runs. Where beginners are planning a plot to set out in fruit, future growth should be considered, standard apple trees should be planted 35 or 40 feet apart each way, as the trees do not get large enough to bear under ten years, nor attain full growth under twenty years. Many desirable crops can be secured in the meantime by setting out two peach or plum trees or rows of pear and cherry trees between the apple trees. This leaves ample room for bush fruit or berries to be raised and cultivated. It is best to put early baby chicks in the young fresh-planted trees and bushes to prevent damage to tender roots from scratching. Baby chicks thrive best among bushes and vines.

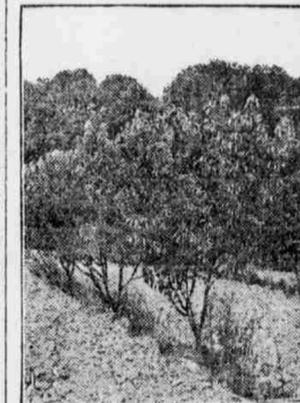
### HOW TO PRUNE FRUIT TREES

Trimming During Dormant Seasons Tends to Wood Production—Summer Pruning is Exhausting.

Heavy top pruning increases the woody growth of trees. It may invigorate weak trees. It tends to lessen fruit production or even check it altogether. It induces the production of water sprouts, which are practically parasites as far as the welfare of the tree is concerned.

Prune weak trees relatively heavier than strong growing ones. Prune every year, removing small amounts of wood, rather than removing the same aggregate at longer intervals. Remove water sprouts as fast as they appear.

Root pruning lessens wood production and is sometimes practical in case of a tree which refuses to bear fruit. The scientific principle involved is that vegetable growth is checked and, as is the tendency in all growing things, fruit is produced as a mature



Young Peach Trees Not Headed Back and Will Break With First Good Crop of Fruit.

stage of growth is reached. Root pruning long continued is likely to permanently weaken the tree.

Pruning during dormant seasons tends to wood production and, during the growing season, to fruit production. This does not mean, however, that summer pruning is advisable, for it is exhausting and if continued reduces the vigor of the tree. It should be resorted to only under special conditions. Winter pruning, if properly practiced, is not objectionable from the standpoint of fruit production.

Trees properly pruned from planting time to fruit bearing need comparatively little pruning thereby. This practice also gives better formed trees and better results than if the young trees are neglected, necessitating later the removal of large branches.

### Primary Object in Pruning.

In pruning fruit trees, remember the primary object is to remove superfluous wood and to shape the tree. Remember also that pruning a tree during its dormant period, that is, while the leaves are off, induces wood growth, while pruning during the summer, or pruning while the leaves are on the tree, retards the growth of wood and induces fruitfulness. Pruning the roots has the same effect.

Cut Out Old Canes. Cut out all old canes of the raspberry and pinch out some of the new growth.

It Did—And It Didn't. With a groan and a snort the express stopped at the wayside station, because the signal stood at danger. On the platform stood a number of passengers waiting for the next train—a slow. Glad of the chance of traveling more quickly, they began to open the carriage door and enter. The guard's face turned purple with wrath. Rushing wildly along, he snarled to the daring passengers to ke back. "Stand away, there!" he ordered. "Stand away! This train doesn't stop here!"

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### A Respite.

"Why do you wish my daughter, sir, would practice on the organ instead of the piano?"

"Because the organ does have some stops about it."

### Paradoxical Pleasure.

"There is one thing which puzzles me."

"What is that?"

"It seems to be mostly the sad dogs who go on joy rides."

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And cured in 6 to 14 days by PAZO OINTMENT. The universal remedy for all forms of Piles. Druggists refund money if it fails. 50c.

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## CASTORIA

THE CENTAUR COMPANY, NEW YORK CITY.

### Mother's Errand.

"Is your mamma at home?" asked a caller of five-year-old Lola, who answered the bell.

"No, ma'am," answered the small miss. "She went out to get some time."

"To get some time!" echoed the caller.

"Yes, ma'am," replied Lola. "She said she was going over to one of the neighbors for a minute."

A frenzied financier is one who earns his money by the sweat of other men's brows.

How easy it is to acquire something you don't want.

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Nine times in ten when the liver is right the stomach and bowels are right.

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